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SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Singh, Bal Ram
Zhang, Zhong

(ii) TITLE OF INVENTION: NOVEL PROTEINS WITHIN THE TYPE E
BOTULINUM NEUROTOXIN COMPLEX

(iii) NUMBER OF SEQUENCES: 5

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Fish & Richardson P.C.
(B) STREET: 225 Franklin Street
(C) CITY: Boston
(D) STATE: MA
(E) COUNTRY: USA
(F) ZIP: 02110-2804

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: Windows 95
(D) SOFTWARE: FastSEQ for Windows Version 2.0b

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/889,354
(B) FILING DATE: 08-JUL-1997

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 60/021,348
(B) FILING DATE: 08-JUL-1996

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Fasse, J. Peter
(B) REGISTRATION NUMBER: 32,983
(C) REFERENCE/DOCKET NUMBER: 08387/002001

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 617/542-5070
(B) TELEFAX: 617/542-8906
(C) TELEX: 200154

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Lys Gln Ala Phe Val Phe Glu Phe Asp
1 5 10

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 amino acids

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(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Arg Ile Asn Thr Asn Ile Asn Ser Met
1 5 10

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Met Gln Thr Thr Thr Leu Asn Trp Asp Thr
1 5 10

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Thr Asn Leu Lys Pro Tyr Ile Ile Tyr Asp
1 5 10

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Glu Leu Lys Gln Ala Phe Val Phe Glu Phe Asp Glu Asn Leu Ser
1 5 10 15
Ser Ser Ser Gly Ser Ile His Leu Glu Lys Val Lys Gln Asn Cys Ser
20 25 30
Pro Asn Tyr Asp Tyr Phe Lys Ile Thr Phe Ile Asp Gly Tyr Leu Tyr
35 40 45
Ile Lys Asn Lys Ser Gly Val Ile Leu Asp Lys Tyr Asp Leu Lys Asn
50 55 60
Val Ile Ser Leu Val Ala Leu Lys Arg Asp Tyr Leu Ser Leu Ser Leu
65 70 75 80
Ser Asn Asn Lys Gln Ile Lys Lys Phe Lys Asn Ile Lys Asn Lys His
85 90 95
Leu Lys Asn Lys Phe Asn Leu Tyr Val Ile Asn Glu Asp Ile Glu Lys
100 105 110

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Arg Ile Thr Lys Asn Gly Ile Leu Glu Glu Val Ile Leu Asn Lys Met
115 120 125
Leu Leu Ser Ile Leu Leu Gly Asn Glu Glu Asn Leu Leu Gln Ile Ser
130 135 140